

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/058913 A1

(51) International Patent Classification⁷: C09K 11/06,
H05B 33/14, H01L 51/20, 51/30

(21) International Application Number:
PCT/GB2003/005573

(22) International Filing Date:
19 December 2003 (19.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0230072.1 24 December 2002 (24.12.2002) GB

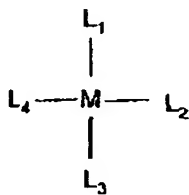
(71) Applicant (for all designated States except US): ELAM-T
LIMITED [GB/GB]; 103 Borough Road, London SE1
0AA (GB).

(72) Inventors; and

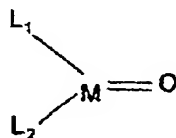
(75) Inventors/Applicants (for US only): ✓ KATHIRGA-
MANATHAN, Poopathy [GB/GB]; The Little Lancaster
House, 1 Lancaster Road, North Harrow HA2 7NN (GB).
✓ PRICE, Richard [GB/GB]; Garden Flat, 5 Raleigh
Road, London N8 0JB (GB). ✓ GANESHAMURUGAN,
Subramaniam [LK/GB]; 135 Antill Road, London N15
4BB (GB). ✓ PARAMASWARA, Gnanamoly [LK/GB];
19 Southway, Totteridge, London N20 8FB (GB). ✓ KU-
MARAVARL, Muttulingham [GB/GB]; 9 Fraser Road,
Greenford, Middlesex UB6 7AH (GB). ✓ PARTHEEPAN,
Arumugam [GB/GB]; 26 Eldertree Way, Mitcham,
Surrey CR4 1AG (GB). ✓ SELVARANJAN, Selvadurai
[GB/GB]; 285A Malden Road, Sutton, Surrey SM3 8ET
(GB). ✓ ANTIPÁN-LARA, Juan [CL/GB]; 29 Jenner
Road, London N16 7SB (GB). ✓ SURENDRAKUMAR,
Sivagnanasundram [GB/GB]; 16 Nolton Place, Edgware,
Middlesex HA8 6DL (GB).

[Continued on next page]

(54) Title: ELECTROLUMINESCENT MATERIALS AND DEVICES

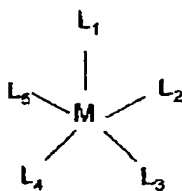


(A)

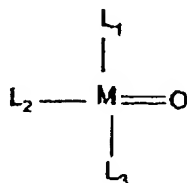


(B)

(57) Abstract: An electroluminescent compound is a organometallic complex in which the metal is titanium, zirconium, hafnium, vanadium, niobium or tantalum.



(C)



(D)

(74) Agent: COHEN, Alan, Nicol; 2 Grove Place, Tatsfield, NR. Westerham, Kent TN16 2BB (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.